



# Fire Fighter 1

## Certification Training Standards Guide (2019)

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This CTS guide utilizes the following NFPA standards to provide the qualifications for State Fire Training's Fire Fighter 1 (2019) certification:

- NFPA 1001: Standard for Fire Fighter Professional Qualifications (2019)
- NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)
- NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications (2017)

State Fire Training coordinated the development of this CTS guide. Before its publication, the Statewide Training and Education Advisory Committee (STEAC) and the State Board of Fire Services (SBFS) recommended this CTS guide for adoption by the Office of the State Fire Marshal (OSFM).

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## 1-11: Fire Fighter Physical Health and Safety

### Authority

1. Office of the State Fire Marshal

### Job Performance Requirement

*Identify common fire fighter health and safety issues, given an assignment, in order to avoid or mitigate common accidents and injuries, maintain a healthy and physically fit lifestyle, and conduct life safety initiatives in the line of duty.*

### Requisite Knowledge

1. List common types of accidents and injuries and identify their causes
2. Describe how physical fitness and a healthy lifestyle correspond to fire fighter performance
3. Define critical aspects of NFPA 1500: Standard on Fire Department Occupational Safety and Health Program (current edition)
4. Describe how fire and life safety initiatives support a fire department's mission to reduce fire fighter line-of-duty injuries and deaths

### Requisite Skills

1. None required

### Content Modification

Block	Modification	Justification
CTS	Added a certification training standard.	Application of this behavior reduces fire fighter injury, illness, and fatalities.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1A, Topic 2-2: Health and Safety Awareness	Cognitive only – no testable skills	(CTS 1-11)

## 1-12: Behavioral Health

### Authority

1. Office of the State Fire Marshal

### Job Performance Requirement

*Describe common sources and impacts of stress and demonstrate practices that contribute to resilience, given an assignment in the fire service, in accordance with current research and best practices.*

### Requisite Knowledge

Define types of stress

Describe signs and symptoms of stress

Describe reactions to stress

Identify common stressors found in various situations and environments

Describe physiological and emotional impacts of stress

Describe behaviors associated with unmanaged stress

Describe the role of nutrition, sleep, exercise, relaxation techniques, and rest in mediating and mitigating stress

Describe healthy and unhealthy coping mechanisms

Identify potential consequences of unhealthy coping mechanisms

Describe the role of communication in coping with stress

Describe behavioral health resources available through an AHJ

Describe behavioral health resources available outside of the fire service

### Requisite Skills

Demonstrate the self-assessment process

Demonstrate relaxation techniques

### Content Modification

Block	Modification	Justification
CTS	Added a certification training standard.	Added to address critical health and safety concerns facing the fire service not covered by NFPA standards.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1A, Topic 2-3: Stress and Resilience	Cognitive only – no testable skills	Cognitive only – no testable skills

## **1-13: Cancer Awareness**

### **Authority**

1. Office of the State Fire Marshal

### **Job Performance Requirement**

*Demonstrate best practices to minimize cancer exposure and risk, given an assignment in the fire service so that the types, prevalence of, and common causes of cancer in the fire service are described, exposure to carcinogenic chemicals is described, and cancer exposure and risk are mitigated in accordance with current research and best practices.*

### **Requisite Knowledge**

- Describe cancer prevalence in the fire service
- Define “carcinogenic agent”
- Identify risk factors specific to the fire service
- Identify risk or protective factors specific to lifestyle
- Identify exposure sources
- Identify common states of carcinogenic chemicals
- Identify common categories of carcinogenic chemicals
- Identify exposure routes
- Identify common activities, objects, and locations associated with exposure
- Identify modifiable and unmodifiable risk factors
- Define “exclusion (hot) zones,” “contamination reduction (warm) zones,” and “support (cold) zones”
- Identify best practices that minimize contaminant exposure and risk during fire suppression, overhaul, mop-up, and post-incident activities
- Identify best practices for PPE that minimize contaminant exposure and risk
- Identify best practices for equipment that minimize contaminant exposure and risk
- Identify best practices that minimize contaminant exposure and risk at the station
- Identify best practices that minimize contaminant exposure and risk at home

### **Requisite Skills**

- Demonstrate best practices that minimize contaminant exposure and risk during fire suppression, overhaul, mop-up, and post-incident activities
- Demonstrate best practices for PPE that minimize contaminant exposure and risk
- Demonstrate best practices for equipment that minimize contaminant exposure and risk
- Demonstrate best practices that minimize contaminant exposure and risk at the station
- Demonstrate best practices that minimize contaminant exposure and risk at home
- Document all exposures, injuries, and illnesses within AHJ reporting system



### Content Modification

Block	Modification	Justification
CTS	Added a certification training standard.	Added to address critical health and safety concerns facing the fire service not covered by NFPA standards.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1A, Topic 2-4: Cancer Awareness	Cognitive only – no testable skills	Cognitive only – no testable skills

















































































































## 6-4: Performing Assigned Tasks at a Hazardous Materials/WMD Incident

### Authority

NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications (2017)

- Paragraph 5.4.1

Office of the State Fire Marshal

### Job Performance Requirement

Perform assigned tasks at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; an assignment with limited potential of contact with hazardous materials/WMD, policies and procedures, the scope of the problem, approved tools, equipment, and PPE, so that protective actions and scene control are established and maintained, on-scene incident command is described, evidence is preserved, approved PPE is selected and used in the proper manner; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; assignments are completed; and gross decontamination of personnel, tools, equipment, and PPE is conducted in the field.

### Requisite Knowledge

*Describe* scene control procedures

*Describe* procedures for protective actions, including evacuation and sheltering-in-place

*Describe* procedures for ensuring coordinated communications between responders and to the public

*List* evidence recognition and preservation procedures

Identify hazardous materials/WMD incident command roles and responsibilities within the incident command system (ICS)

*Identify* the purpose, importance, benefits, and organization of incident command at hazardous materials/WMD incidents

*Describe* policies and procedures for implementing incident command at hazardous materials/WMD incidents

*Describe* the capabilities, limitations, inspection, donning, working in, going through decontamination while wearing, doffing approved PPE

*Describe how to* recognize signs and symptoms of thermal stress

*Identify* safety precautions when working at hazardous materials/WMD incidents

*Describe* purpose, advantages, and limitations of gross decontamination

*Identify* the need for gross decontamination in the field based on the task(s) performed and contamination received, including sources and hazards of carcinogens at incident scenes

*Describe* gross decontamination procedures for personnel, tools, equipment, and PPE

*Describe how to* clean, disinfect, and inspect tools, equipment, and PPE

### Requisite Skills

Establish and maintain scene control

Recognize and preserve evidence

Inspect, don, work in, go through decontamination while wearing, and doff approved PPE

Isolate contaminated tools, equipment, and PPE

Conduct gross decontamination of contaminated personnel, tools, equipment, and PPE in the field

Clean, disinfect, and inspect approved tools, equipment, and PPE

### Content Modification

Block	Modification	Justification
RK 5	Changed “Describe incident command organization” to “Identify hazardous materials/WMD incident command roles and responsibilities within the incident command system (ICS)”.	Expanded to identify that there are roles and responsibilities specific to HazMat/WMD within the ICS.
RK 14	Removed “ing” from “cleaning, disinfecting, and inspecting”.	Removed for consistency with other RK language.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1B, Topic 3-3: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials/WMD Incident <ul style="list-style-type: none"> <li>○ RK 8, 14</li> </ul> Fire Fighter 1B, Topic 3-4: Performing Decontamination at a Hazardous Materials/WMD Incident <ul style="list-style-type: none"> <li>○ RK 11, 13</li> </ul> Fire Fighter 1B, Topic 3-6: Performing Assigned Tasks at a Hazardous Materials/WMD Incident <ul style="list-style-type: none"> <li>○ RK 1, 2, 3, 4, 5, 6, 7, 9, 10, 12 and RS 1, 2, 3, 4, 5, 6</li> </ul>	6-4: Perform Assigned Tasks at a Hazardous Materials/WMD Incident	(CTS 6-4)

## 6-5: Performing Emergency Decontamination at a Hazardous Materials/ WMD Incident

### Authority

1. NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications (2017)
  - Paragraph 5.5.1

### Job Performance Requirement

Perform emergency decontamination at a hazardous materials/WMD incident, given a hazardous materials/WMD incident that requires emergency decontamination; an assignment; scope of the problem; policies and procedures; and approved tools, equipment, and PPE for emergency decontamination, so that emergency decontamination needs are identified, approved PPE is selected and used, exposures and personnel are protected, safety procedures are followed, hazards are avoided or minimized, emergency decontamination is set up and implemented, and victims and responders are decontaminated.

### Requisite Knowledge

*Define* contamination, cross contamination, and exposure

*Describe* contamination types

*List* routes of exposure

*Identify* types of decontamination (emergency, mass, and technical)

*Describe the* purpose, advantages, and limitations of emergency decontamination

*Describe* policies and procedures for performing emergency decontamination

*Identify* approved tools and equipment for emergency decontamination

*Describe* hazard avoidance for emergency decontamination

### Requisite Skills

Select an emergency decontamination method

Set up emergency decontamination in a safe area

Use PPE in the proper manner

Implement emergency decontamination

Prevent spread of contamination

Avoid hazards during emergency decontamination

### Content Modification

Block	Modification	Justification

**Cross Reference**

<b>Course Plan</b>	<b>Skill Sheet(s)</b>	<b>Task Book</b>
Fire Fighter 1B, Topic 3-4: Performing Emergency Decontamination at a Hazardous Materials/WMD Incident	6-5: Perform Emergency Decontamination	(CTS 6-5)

## 6-6: Evaluating and Reporting Progress for a Hazardous Materials/WMD Incident

### Authority

NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications (2017)

- Paragraph 5.6.1

### Job Performance Requirement

Evaluate and report the progress of the assigned tasks for a hazardous materials/WMD incident, given a hazardous materials/WMD incident, an assignment, policies and procedures, status of assigned tasks, and approved communication tools and equipment, so that the effectiveness of the assigned tasks is evaluated and communicated to the supervisor, who can adjust the IAP as needed.

### Requisite Knowledge

*List* components of progress reports

*Describe* policies and procedures for evaluating and reporting progress

*Describe how to* use approved communication tools and equipment

*Identify* signs indicating improving, static, or deteriorating conditions based on the objectives of the action plan

*Describe how to recognize* circumstances under which it would be prudent to withdraw from a hazardous materials/ WMD incident

### Requisite Skills

Determine incident status

Determining whether the response objectives are being accomplished

Use approved communications tools and equipment

Communicate the status of assigned tasks

### Content Modification

Block	Modification	Justification

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1B, Topic 3-8: Evaluating and Reporting Progress for a Hazardous Materials/WMD Incident	6-8: Evaluate and Report Progress for a Hazardous Materials/WMD Incident	(CTS 6-6)



## Section 7: Operations – Mission Specific

### 7-1: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials/WMD Incident

#### Authority

NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications (2017)

- Paragraph 6.2.1

#### Job Performance Requirement

Select, don, work in, and doff approved PPE at a hazardous materials/WMD incident, given a hazardous materials/WMD incident; a mission-specific assignment in an IAP that requires use of PPE; the scope of the problem; response objectives and options for the incident; access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures; approved PPE; and policies and procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected, inspected, donned, worked in, decontaminated, and doffed; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; and all reports and documentation pertaining to PPE use are completed.

#### Requisite Knowledge

*Describe* policies and procedures for PPE selection and use

*Describe the* importance of working under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures when selecting and using PPE

*Identify* the capabilities and limitations of and specialized donning, doffing, and usage procedures for approved PPE

*List* components of an incident action plan (IAP)

*Describe* procedures for decontamination, inspection, maintenance, and storage of approved PPE

*Describe the* process for being decontaminated while wearing PPE

*Describe* procedures for reporting and documenting the use of PPE

#### Requisite Skills

Select PPE for the assignment

Inspect, maintain, store, don, work in, and doff PPE

Go through decontamination (emergency and technical) while wearing the PPE

Report and document the use of PPE

**Content Modification**

Block	Modification	Justification

**Cross Reference**

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1B, Topic 3-3: Selecting, Donning, Working In and Doffing Approved PPE at a Hazardous Materials/WMD Incident <ul style="list-style-type: none"> <li>○ RK 1, 2, 3, 5, 6, 7 and RS 1, 2, 3, 4</li> </ul> Fire Fighter 1B, Topic 3-5: Identifying Action Options for a Hazardous Materials/WMD Incident <ul style="list-style-type: none"> <li>○ RK 4</li> </ul>	7-1: Don, Work In, and Doff Chemical Protective Clothing	(CTS 7-1)

## **7-2: Performing Product Control Techniques at a Hazardous Materials/WMD Incident**

### **Authority**

NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications (2017)

- Paragraph 6.6.1

Office of the State Fire Marshal

### **Job Performance Requirement**

Perform product control techniques with a limited risk of personal exposure at a hazardous materials/WMD incident, given a hazardous materials/WMD incident with release of product; an assignment in an IAP; scope of the problem; policies and procedures; approved tools, equipment, control agents, and PPE; and access to a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, so that under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures, approved PPE is selected and used; exposures and personnel are protected; safety procedures are followed; hazards are avoided or minimized; a product control technique is selected and implemented; the product is controlled; victims, personnel, tools, and equipment are decontaminated; and product control operations are reported and documented.

### **Requisite Knowledge**

*Describe* types of PPE and the hazards for which they are used

*Describe the* importance of working under the guidance of a hazardous materials technician, an allied professional, an emergency response plan, or standard operating procedures

*Define* control, confinement, containment, and extinguishment

Describe policies and procedures for product control

*Identify* product control methods for controlling a release with limited risk of personal exposure

*Describe* safety precautions associated with each product control method

*Identify the* location and describe how to operation of remote/emergency shutoff devices in cargo tanks and intermodal tanks in transportation and containers at facilities, that contain flammable liquids and flammable gases

*List* characteristics and applicability of approved product control agents

*Describe how to* use approved tools and equipment

*Identify* requirements for reporting and documenting product control operations

### **Requisite Skills**

Select and use PPE

Select and perform product control techniques to confine/contain the release with limited risk of personal exposure

Use approved control agents and equipment on a release involving hazardous materials/WMD

Use remote control valves and emergency shutoff devices on cargo tanks and intermodal tanks in transportation and containers at fixed facilities  
 Perform product control techniques

**Content Modification**

Block	Modification	Justification
RK 4	Added “for product control”.	Added to narrow the scope of discussion of policies and procedures.

**Cross Reference**

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1B, Topic 3-7: Performing Product Control Techniques at a Hazardous Materials/WMD Incident <ul style="list-style-type: none"> <li>○ RK 2, 3, 4, 5, 6, 7, 8, 9, 10 and RS 1, 2, 3, 4, 5</li> </ul> Fire Fighter 1B, Topic 3-3: Selecting, Donning, Working In, and Doffing Approved PPE at a Hazardous Materials/WMD Incident <ul style="list-style-type: none"> <li>○ RK 1</li> </ul>	7-2: Perform Product Control	(CTS 7-2)

# Wildland Fire Fighter 1

## Section 8: Wildland Fire Fighter Duties

### 8-1: Role of the Wildland Fire Fighter

#### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.1.1, 4.1.2

Office of the State Fire Marshal

#### Job Performance Requirement

There is no job performance requirement identified for this training standard.

#### Requisite Knowledge

*Describe* fireline safety and use and limitations of personal protective equipment

*Describe* the use, limitations, inspection, and care of a fire shelter

*Describe* AHJ on fire shelter use

*Describe* basic wildland fire behavior

*Identify* fire suppression techniques

*Identify* basic wildland fire tactics

*Describe* the fire fighter's role within the AHJ incident management system

*Describe* AHJ required first aid

*Describe how to use* NFES 1077, Incident Response Pocket Guide (IRPG)

#### Requisite Skills

Use basic verbal communication

Use required personal protective equipment

Deploy a fire shelter

#### Content Modification

Block	Modification	Justification
RK 2	Added knowledge component.	Added to call attention to a unique element of PPE that isn't physically worn.
RS 3	Added skills component.	Not covered by NFPA 1051 but critical for wildland fire fighter survival.

**Cross Reference**

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 1-3: Wildland Fire Fighter Roles and Responsibilities <ul style="list-style-type: none"> <li>• RK 4, 5, 6, 7, 8, 9</li> </ul> Fire Fighter 1C, Topic 2-1: Wildland Fire Behavior <ul style="list-style-type: none"> <li>• RK 4</li> </ul> Fire Fighter 1C, Topic 2-3: Human Factors on the Fireline <ul style="list-style-type: none"> <li>• RS 1</li> </ul> Fire Fighter 1C, Topic 2-4: Donning, Doffing, and Maintaining Wildland Personal Protective Equipment <ul style="list-style-type: none"> <li>• RK 1 and RS 2</li> </ul> Fire Fighter 1C, Topic 2-5: Deploying a Fire Shelter <ul style="list-style-type: none"> <li>• RK 2, 3 and RS 3</li> </ul> Fire Fighter 1C, Topic 3-2: Constructing a Fireline <ul style="list-style-type: none"> <li>• RK 5, 6</li> </ul> Fire Fighter 1C, Topic 3-4: Reducing the Threat of Fire Exposure to Improved Properties (WUI) <ul style="list-style-type: none"> <li>• RK 4</li> </ul>	Cognitive only – no testable skills	Cognitive only – no testable skills

## 8-2: Donning Wildland Personal Protective Equipment

### Authority

Office of the State Fire Marshal

### Job Performance Requirement

*Don wildland personal protective equipment (PPE), given PPE, so the PPE is donned in 60 seconds or less and all elements of the PPE ensemble are worn in accordance with manufacturer guidelines.*

### Requisite Knowledge

- Identify the components of wildland PPE
- Explain the importance of standards for wildland PPE
- Describe the protection provided by wildland PPE
- Describe the limitations of wildland PPE
- Identify manufacturer guidelines for correct PPE use

### Requisite Skills

Don PPE

### Content Modification

Block	Modification	Justification
CTS	Added a certification training standard.	NFPA 1051 does not include a designated JPR for donning wildland PPE. OSFM uses 60 seconds as the industry standard.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 2-4: Donning, Doffing, and Maintaining Wildland Personal Protective Equipment	8-2: Don Wildland Personal Protective Equipment	(CTS 8-2)

### 8-3: Deploying a Fire Shelter

#### Authority

Office of the State Fire Marshal

#### Job Performance Requirement

*Deploy a fire shelter, given PPE, a hand tool, a live or simulated incident, and a fire shelter, so that the fire shelter is deployed within 30 seconds and used in accordance with manufacturer and AHJ procedures.*

#### Requisite Knowledge

- Describe the protection provided by and limitations of fire shelters
- Describe how to inspect and evaluate a fire shelter
- Describe how to select and prepare a shelter deployment site
- Identify items to take into and leave outside a fire shelter
- Describe methods for deploying a fire shelter
- Identify when to deploy and exit a fire shelter during an incident

#### Requisite Skills

Deploy a fire shelter within 30 seconds

#### Content Modification

Block	Modification	Justification
CTS	Added a certification training standard.	NFPA 1051 does not include a designated JPR for deploying a fire shelter. OSFM uses 30 seconds as the industry standard.

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 2-5: Deploying a Fire Shelter	8-3: Deploy a Fire Shelter	(CTS 8-3)



## 8-4: Doffing Wildland Personal Protective Equipment

### Authority

Office of the State Fire Marshal

### Job Performance Requirement

*Doff wildland personal protective equipment (PPE), given PPE, so that PPE is removed in accordance with manufacturer guidelines and returned to a ready state.*

### Requisite Knowledge

Identify when it is safe to doff PPE

Identify AHJ policies and procedures for doffing PPE

### Requisite Skills

Doff PPE

Return PPE to a ready state

### Content Modification

Block	Modification	Justification
CTS	Added a certification training standard.	NFPA 1051 does not include a designed JPR for doffing PPE.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 2-4: Donning, Doffing, and Maintaining Wildland Personal Protective Equipment	8-4: Doff Wildland Personal Protective Equipment	(CTS 8-4)

## Section 9: Preparedness

### 9-1: Maintaining Assigned Personal Protective Equipment

#### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.3.2

#### Job Performance Requirement

Maintain assigned personal protective equipment, given the standard equipment issue, so that the equipment is serviceable and available for use on the fireline and defects are recognized and reported to the supervisor.

#### Requisite Knowledge

*Describe how to* maintain personal protective equipment, including inspection, the recognition of unserviceable items, and proper cleaning procedures

#### Requisite Skills

None specified

#### Content Modification

Block	Modification	Justification

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 2-4: Donning, Doffing, and Maintaining Wildland Personal Protective Equipment	9-1: Maintain Assigned Personal Protective Equipment	(CTS 9-1)

## 9-2: Maintaining Assigned Suppression Hand Tools and Equipment

### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.3.3

### Job Performance Requirement

Maintain assigned suppression hand tools and equipment, given tools and equipment and AHJ maintenance specifications, so that assigned equipment is maintained and serviceable and defects are recognized and reported to the supervisor.

### Requisite Knowledge

*Describe how to inspect tools and assigned suppression equipment*

*Describe how to recognize unserviceable items*

*Describe required maintenance techniques*

### Requisite Skills

Sharpen assigned suppression equipment

Maintenance techniques for assigned suppression equipment

Use required maintenance equipment

### Content Modification

Block	Modification	Justification

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 2-6: Maintaining Assigned Suppression Hand Tools and Equipment	9-2: Maintain Hand Tools and Equipment	(CTS 9-2)

### 9-3: Maintaining Personal Gear Kit

#### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.3.4

#### Job Performance Requirement

Maintain personal gear kit, given a deployment and AHJ policies, so that mobilization response readiness meets AHJ requirements.

#### Requisite Knowledge

*Describe* contents of a personal gear kit

*Identify* type and duration of the incident

*Describe* AHJ requirements

#### Requisite Skills

None specified

#### Content Modification

Block	Modification	Justification

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 2-7: Maintaining Personal Gear Kit	Cognitive only – no testable skills	Cognitive only – no testable skills

## Section 10: Suppression

### 10-1: Assembling and Preparing for Response

#### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.5.2

Office of the State Fire Marshal

#### Job Performance Requirement

Assemble and prepare for response, given an assembly location, an assignment, incident location, mode of transportation, and time requirements, so that arrival at the incident with the required personnel and equipment meets AHJ guidelines.

#### Requisite Knowledge

Identify equipment required for response

Describe AHJ time standards and special transportation considerations

Describe AHJ safety response guidelines

Describe operational procedures for various response modes

#### Requisite Skills

None specified

#### Content Modification

Block	Modification	Justification
RK 1	Changed “requirements” to “required for response”.	Clarification. The student isn’t identifying the requirements of the equipment, they are identifying what equipment is required based on what the incident requires.
RK 2	Removed “(weight considerations)”.	Weight is not the only special transportation consideration.
RK 3	Added “response guidelines”.	Narrowing the scope of “agency safety” to pertain to the JPR.
RK 4	Changed “transportation” to “response”.	Transportation implies the type of vehicle in which the responders are traveling to the incident, not the response level. Revised for clarification.

#### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 3-1: Assembling and Preparing for Response	10-1: Assemble and Prepare for Response	(CTS 10-1)

## 10-2: Recognizing Hazards and Unsafe Situations

### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.5.3

Office of the State Fire Marshal

### Job Performance Requirement

Recognize hazards and unsafe situations, given a wildland or wildland/urban interface fire *or simulated scenario* and the standard safety policies and procedures of the AHJ, so that the hazard(s) and unsafe condition(s) are communicated to the supervisor and appropriate action is taken.

### Requisite Knowledge

Describe basic wildland fire safety

Describe basic wildland fire behavior

Identify basic wildland suppression methods

Describe the Standard Fire Fighting Orders

Describe the Situations that Shout “Watch Out”

Describe the principles of LCES (Lookouts, Communications, Escape Routes, Safety Zones)

Describe downhill checklist guideline

Describe Common Denominators of Fire Behavior on Tragedy Fires

Describe human factors that impact wildland fire suppression

### Requisite Skills

Demonstrate knowledge of the Standard Fire Orders, the Situations that Shout “Watch Out”, and LCES

### Content Modification

Block	Modification	Justification
JPR	Added “or simulated scenario”.	Allows option to complete testing outside of a live wildland fire.
RK 2	Added “basic wildland”.	Added to narrow the scope of “fire behavior”.
RK 3	Added “basic wildland”.	Added to narrow the scope of “suppression methods”.
RK 4	Added knowledge component.	Added to align with NWCG S-130 fire fighter training.
RK 5	Added knowledge component.	Added to align with NWCG S-130 fire fighter training.
RK 6	Added knowledge component.	Added to align with NWCG S-130 fire fighter training.
RK 7	Added knowledge component.	Not covered by NFPA 1051 but it is an IRPG industry standard.

Fire Fighter 1 – Wildland  
Section 10: Suppression

RK 8	Added knowledge component.	Not covered by NFPA 1051 but it is an IRPG industry standard.
RK 9	Added knowledge component.	NFPA does include human factors.
RS 1	Added skills component.	Added to align with NWCG S-130 fire fighter training

**Cross Reference**

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 2-1: Wildland Fire Behavior <ul style="list-style-type: none"> <li>• RK 2</li> </ul> Fire Fighter 1C, Topic 2-2: Recognizing Hazards and Unsafe Situations <ul style="list-style-type: none"> <li>• RK 1, 4, 5, 6, 7, 8 and RS 1</li> </ul> Fire Fighter 1C, Topic 2-3: Human Factors on the Fireline <ul style="list-style-type: none"> <li>• RK 9</li> </ul> Fire Fighter 1C, Topic 3-2: Constructing a Fireline <ul style="list-style-type: none"> <li>○ RK 3</li> </ul>	10-2a: Use Incident Response Pocket Guide 10-3b: Assume Safety Position for Retardant Drop	(CTS 10-2)

### 10-3: Constructing a Fireline

#### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.5.4

Office of the State Fire Marshal

#### Job Performance Requirement

Construct a fireline, given a wildland fire *or simulated scenario*, AHJ line construction standards, suppression tools, water or other suppression agents, and equipment, so that the fireline conforms to the construction standard.

#### Requisite Knowledge

Describe basic wildland suppression strategy

Identify basic wildland suppression tactics

Describe fireline construction principles, techniques, and standards

Describe safety considerations related to fireline construction

Describe how to construct a handline

Describe how to perform mobile attack

Describe how to perform a simple hose lay

Describe how to perform a progressive hose lay

Describe how to retrieve hose

#### Requisite Skills

Use hand tools properly

Apply fire streams

Apply extinguishing agents

#### Content Modification

Block	Modification	Justification
JPR	Added “or simulated scenario”.	Allows option to complete testing outside of a live wildland fire.
RK 1	Added knowledge component.	Statewide operational activities require more detail than provided by NFPA.
RK 2	Added knowledge component.	Statewide operational activities require more detail than provided by NFPA.
RK 3	Changed the word order.	Revised to simplify and clarify language.
RK 4	Added knowledge component.	Not covered by NFPA 1051 but it is an IRPG industry standard.
RK 5	Added knowledge component.	Statewide operational activities require more detail than provided by NFPA.
RK 6	Added knowledge	Statewide operational activities require more detail than



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	component.	provided by NFPA.
RK 7	Added knowledge component.	Statewide operational activities require more detail than provided by NFPA.
RK 8	Added knowledge component.	Statewide operational activities require more detail than provided by NFPA.
RK 9	Added knowledge component.	Statewide operational activities require more detail than provided by NFPA.
RS 1-3	Revised to put verb first.	Consistency with all other RS text.
RS 3	Added “extinguishing”.	Added to clarify agent type.

**Cross Reference**

<b>Course Plan</b>	<b>Skill Sheet(s)</b>	<b>Task Book</b>
Fire Fighter 1C, Topic 3-2: Constructing a Fireline	10-3a: Assemble, Use, and Maintain a Back Pump 10-3b: Perform a Progressive Hose Lay (Hose) 10-3b: Perform a Progressive Hose Lay (Nozzle) 10-3c: Construct a Fireline Using Hand Tools 10-3d: Perform Mobile Pumping	(CTS 10-3)

## 10-4: Securing the Fireline

### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.5.5

Office of the State Fire Marshal

### Job Performance Requirement

Secure the fireline, given a wildland fire *or simulated scenario*, suppression tools, water or other suppression agents, and equipment, so that *fireline* burning materials and unburned fuels *are physically separated*.

### Requisite Knowledge

*Describe* line improvement techniques

*Identify* safety considerations

Describe how to use basic ignition devices

### Requisite Skills

Use of basic ignition devices only under direct supervision

### Content Modification

Block	Modification	Justification
JPR	Added “or simulated scenario”.	Allows option to complete testing outside of a live wildland fire.
JPR	Adjusted language.	NFPA standard for JPR was unclear and abatement is not always possible.
RK 3	Added a knowledge component.	Not included in NFPA 1051 but required by Cal OES. All type III engines must carry a drip torch.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 3-3: Securing a Fireline	10-4a: Ignite and Extinguish Road Flares and Fusees 10-4b: Assemble, Ignite, Extinguish, and Disassemble a Drip Torch	(CTS 10-4)

## 10-5: Reducing the Threat of Fire Exposure to Improved Properties

### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.5.6

Office of the State Fire Marshal

### Job Performance Requirement

Describe the methods to reduce the threat of fire exposure to improved properties, given a wildland/urban interface fire *or simulated scenario*, suppression tools, and equipment, so that improvements are protected.

### Requisite Knowledge

Describe wildland fire behavior within the wildland/urban interface

Describe wildland fuel removal for structure defense preparation

Describe structure defense methods

Identify equipment and personnel capabilities within the wildland/urban interface

Identify the difference between a safety zone and a temporary refuge area (TRA)

### Requisite Skills

Use methods to protect improvements

### Content Modification

Block	Modification	Justification
JPR	Added “or simulated scenario”.	Allows option to complete testing outside of a live wildland fire.
RK 1	Added “within the wildland/urban interface”.	Expanding wildland fire behavior (covered in CTS 10-2) to include wildland/urban interface.
RK 2	Added “for structure defense preparation”.	Added to clarify the purpose and location of removal.
RK 3	Replaced “protection” with “defense”.	“Defend” is California terminology.
RK 4	Added “within the wildland/urban interface”.	Expanding wildland fire behavior (covered in CTS 10-2) to include wildland/urban interface.
RK 5	Added knowledge component.	NFPA does not adequately address safety.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 3-4: Reducing the Threat of Fire Exposure to Improved Properties (WUI)	10-5: Prep and Defend a Structure	(CTS 10-5)

## 10-6: Mopping Up a Fire Area

### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.5.7

Office of the State Fire Marshal

### Job Performance Requirement

Mop up fire area, given a wildland fire *or simulated scenario*, suppression tools, and water or other suppression agents and equipment, so that burning fuels that threaten escape are located and extinguished.

### Requisite Knowledge

*Describe* mop up principles, techniques, and standards

### Requisite Skills

Use basic tools and techniques to perform mop-up operations

### Content Modification

Block	Modification	Justification
JPR	Added “or simulated scenario”.	Allows option to complete testing outside of a live wildland fire.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 3-5: Mopping Up in a Fire Area	10-6: Perform Mop Up Operations	(CTS 10-6)

## 10-7: Patrolling the Fire Area

### Authority

NFPA 1051: Standard for Wildland Firefighting Personnel Professional Qualifications (2020)

- Paragraph 4.5.8

Office of the State Fire Marshal

### Job Performance Requirement

Patrol the fire area, given a wildland fire *or simulated scenario*, suppression tools, and equipment, so that containment of the fire area is maintained.

### Requisite Knowledge

*Describe* patrol principles, techniques, and standards

### Requisite Skills

Observe, identify, and take action on potential threats *when patrolling fire areas*

### Content Modification

Block	Modification	Justification
JPR	Added “or simulated scenario”.	Allows option to complete testing outside of a live wildland fire.
RS 1	Added “to patrolling fire areas”.	Revised to narrow scope of requisite knowledge application.

### Cross Reference

Course Plan	Skill Sheet(s)	Task Book
Fire Fighter 1C, Topic 3-6: Patrolling the Fire Area	10-7: Patrol the Fire Area	(CTS 10-7)

## Revisions

This page documents changes made to the CTS guide since its initiation publication.

### August 2020

The August 2020 changes reflect updates based on the 2020 edition of NFPA 1051 Standard for Wildland Firefighting Personnel Professional Qualifications. The staff review determined the following minor changes.

#### NFPA:

- All instances
  - Replaced the word “agency” with “AHJ”
- Paragraph 4.1.1
  - Added “AHJ required” to “first aid” in requisite knowledge
  - Removed “and NFES 2943, Wildland Fire Incident Management Field Guide” in requisite knowledge
- Paragraph 4.3.4
  - Added a new job performance requirement
- Paragraph 4.5.4
  - Replaced “correctly” with “properly” in requisite skills
- Paragraph 4.5.8
  - Replaced the word “control” with “containment” in JPR
  - Replaced “Apply requisite knowledge” with “Observe, identify, and take action on potential threats” in requisite skills

#### Impact

- Made all editorial changes
- Added the new JPR to the CTS guide as standard 9-3: Maintaining a Personal Gear Kit
- Added the new JPR to the Fire Fighter 1C: Wildland Fire Fighter course plan as Topic 2-7: Maintaining Personal Gear Kit
  - Most of the Topic 2-7 material was already covered in Topic 3-1: Assembling and Preparing for Response.
  - Moved the Application activity from 3-1 to 2-7
  - Adjusted time between 3-1 and 2-7
  - No addition to the certification task book and no skill sheet
  - No changes to time or cost for course delivery and/or testing

#### Documents Changed

- Fire Fighter 1 Certification Training Standards Guide (2019)
- Fire Fighter 1C: Wildland Fire Fighter Course Plan

- All Wildland skill sheets (9-1 through 9-2 and 10-1 through 10-7) to reflect NFPA edition number and editorial changes

## **August 2020**

The December 2020 change added *Wildland Fire Fighter: Principles and Practice* (Jones and Bartlett Learning, 2nd edition, ISBN: 978-1-284-04211-5) textbook as an alternate option to *Wildland Fire Fighter: Principles and Practice* (Fire Protection Publications, Oklahoma State University, 4th edition, ISBN: 978-087939676-3) for Fire Fighter 1C: Wildland.